

WHAT IS CLAIMED IS:

1           1. A purified, isolated DNA sequence comprising the  
2 sequence as set out in Figure 5 or its complementary strand and  
3 DNA sequences which hybridize under stringent hybridization  
4 conditions with said DNA sequences.

1           2. A purified, isolated DNA sequence consisting  
2 essentially of a DNA sequence encoding a polypeptide having an  
3 amino acid sequence sufficiently duplicative of human bac-  
4 tericidal/permeability-increasing protein to allow possession  
5 of the biological property of increasing the permeability and  
6 killing of susceptible gram negative bacteria.

1           3. A purified, isolated DNA sequence which hybridizes  
2 under stringent hybridization conditions with DNA sequences  
3 that encode natural bactericidal/permeability increasing  
4 holoprotein.

1           4. A purified, isolated DNA sequence having the  
2 sequence of from nucleotide 123 to about nucleotide 780 as set  
3 out in Figure 5.

1           5. The DNA sequence of claim 4 comprising a biologi-  
2 cally-active fragment of bactericidal/permeability-increasing  
3 protein.

1           6. A purified, isolated protein having the properties  
2 of naturally occurring human bactericidal/permeability-increas-  
3 ing protein.

1           7. The purified, isolated protein of claim 7 compris-  
2 ing the amino acid sequence as set out in Figure 5.

1           8. The purified, isolated protein comprising the  
2 amino acid sequence from amino acid residue 1 to about amino  
3 acid residue 220 as set out in Figure 5.

1           9. A purified, isolated gene encoding human bac-  
2 tericidal/permeability-increasing protein.

1           10. A DNA plasmid vector consisting essentially of the  
2 DNA sequence of claim 1 in the proper reading frame.

1           11. A prokaryotic or eukaryotic cell stably trans-  
2 formed or transfected with the DNA vector of claim 10.